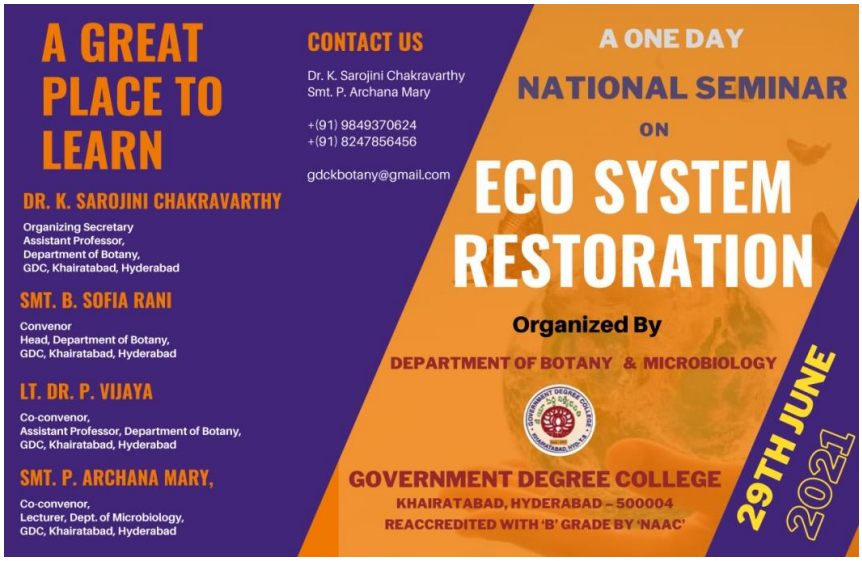
Government Degree College, Khairatabad
Department of Botany & Microbiology
One Day National Webinar on "Ecosystem Restoration"
(29.06.2021)

Department of Botany and Microbiology organized One Day National Webinar on "**Ecosystem Restoration**" on **29th June, 2021**. Our Principal and JD (FAC) **Dr. DSR Rajender Singh** delivered key note address. Four invited speakers delivered lecturers on different aspects of Ecosystem Restoration. The first speaker **Dr. A. Vijaya Bhasker Reddy**, Assistant Professor, Department of Botany, Nizam College (A), Osmania University spoke on the topic Biodiversity and Ecosystem Restoration. **Dr. Nageswara Rao Amanchi,** Assistant Professor, Department of Zoology, Nizam College (A), Osmania University delivered a lecture on Keys, Principles, Approaches and Interventions of Ecosystem Restoration. **Dr. Rama Chandra Prasad Pillutla**, Associate Professor, Lab for Spatial Informatics, IIIT, Hyderabad shared his knowledge on Remote Sensing and how the satellite images are helpful to know about the degraded and damaged ecosystems. The last speaker of the webinar **Dr. N. Srinivasa Rao**, Scientist, INCOIS, Ministry of Earth Sciences, Government of India, Hyderabad delivered his lecture on the role of remote sensing in ocean ecosystem along with flora, fauna, dust storms and oil spillages in the ocean. Faculty and students numbering 141 were registered from the states of Telangana, Andhra Pradesh, Karnataka, Tamil Nadu, Maharastra and West Bengal. On that day 134 participants participated and all the participants received e-certificates after giving their feedback. The Organizing Secretary of the webinar was **Dr. K. Sarojini Chakravarthy**, Assistant Professor of Botany, **Smt. B. Sofia Ran**i, Incharge, Department of Botany was the Convenor and the Co-convenors of the webinar were **Lt. Dr. P. Vijaya**, Assistant Professor of Botany and **Smt. P. Archana Mary**, Lecturer in Microbiology.

Registration link:
https://docs.google.com/spreadsheets/d/1YeylIaVjXHlc43zUHZ_8cNczksyz0Oo3DBig6NHJkTE/edit?resourcekey#gid=863563185

Feedback link: https://docs.google.com/spreadsheets/d/1Q7hArt_iuojbAz7v-iUTPxYlIRMJFQ3quN7gbFnCSIs



INVITED SPEAKERS

DR. A. VIJAYA BHASKER REDDY
Assistant Professor,
Department of Botany,
Nizam College (Autonomous),
Osmania University, Hyderabad
Topic: Biodiversity and Ecosystem Restoration

DR. NAGESWARA RAO AMANCHI
Assistant Professor,
Department of Zoology,
Nizam College (Autonomous),
Osmania University, Hyderabad,
Topic: Ecosystem Restoration-Certain Key Approaches, Principles and Interventions

DR. N. SRINIVASA RAO,
Scientist,
Indian National Centre for Ocean Information Services (INCOIS),
Ministry of Earth Sciences,
Government of India, Hyderabad,
Topic: Ocean Environmental Challenges-Observing Through Remote Sensing

DR. RAMA CHANDRA PRASAD PILLUTLA
Associate Professor
Lab for Spatial Informatics,
IIIT, Hyderabad
Topic: Remote Sensing Approaches in Understanding Ecosystem Restoration

ABOUT ECOSYSTEM RESTORATION

Ecosystem restoration means assisting in the recovery of ecosystems that have been degraded or destroyed, as well as conserving the ecosystems that are still intact. Restoration can happen in many ways. It is not always possible - or desirable - to return an ecosystem to its original state. Restoration could also remove 13 to 26 gigatons of greenhouse gases from the atmosphere. The emergence of COVID-19 has also shown just how disastrous the consequences of ecosystem loss can be. By shrinking the area of natural habitat for animals, we have created ideal conditions for pathogens - including coronaviruses - to spread. But we can build back better. The economic benefits of such interventions exceed nine times the cost of investment, whereas inaction is at least three times more costly than ecosystem restoration. All kinds of ecosystems can be restored, including forests, farmlands, cities, wetlands and oceans.

ABOUT GDC KHAIRATABAD

Government Degree College, Khairathabad which started functioning as New Government Degree College, Hyderabad was established in 1973 by the then Government of the combined state at Victoria Memorial Home, Saroornagar. A year later, in 1974, it was shifted to its present location, that is, at ChintalBasthi, Khairatabad.

The college has greenery campus established in 2.98 acres land. The college has 18 departments with Under Graduate 20 courses in Arts, Life Sciences, Physical Sciences, Commerce and Business Administration.

ORGANIZING COMMITTEE

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COMMISSIONER
Commissionerate Collegiate of Education,
Government of Telangana, Hyderabad

Patrons
DR. K. YADAGIRI
Joint Director,
Commissionerate Collegiate of Education,
Government of Telangana, Hyderabad

Chairman
DR. DSR RAJENDER SINGH
Principal and Joint Director (FAC)
GDC, Khairatabad, Hyderabad

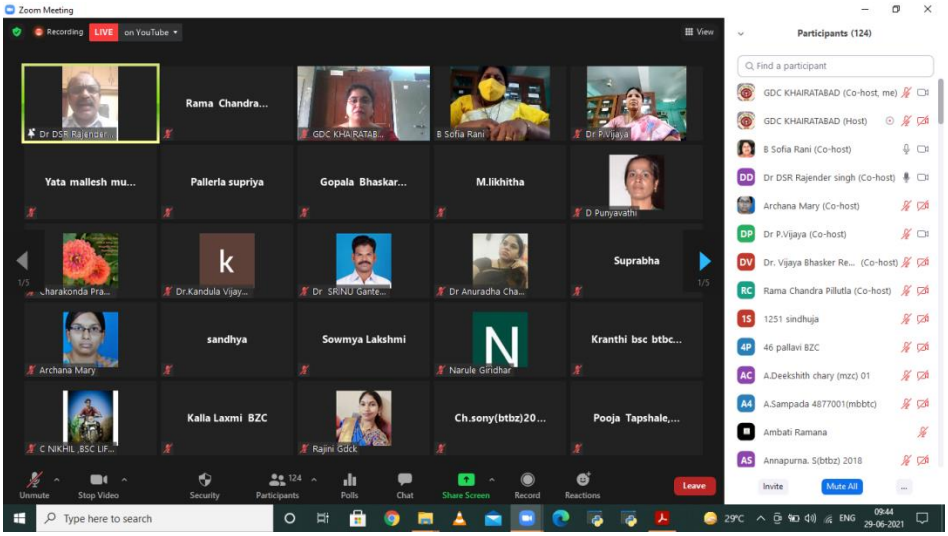
DR. GHAN SHYAM
Academic Guidance Officer,
Commissionerate Collegiate of Education,
Government of Telangana, Hyderabad

Government Degree College
Khairatabad, Hyderabad, Telangana

Department of Botany and Microbiology, Government Degree College, Khairatabad, Hyderabad organizes One Day National Webinar on "Ecosystem Restoration" on 29th June, 2021.

Inaugural Session on 29th June 2021 @ 9:30AM
Program Schedule

SNo.	Activity	Time	Speaker
1	Welcoming Guests and Participants and Introduction of the Webinar	9:30 –9:40 AM	Dr. K. Sarojini Chakravarthy, Organizing Secretary Department of Botany
2	Introduction of the Principal	9:40 –9:42 AM	Smt. B. Sofia Rani, Head, Department of Botany
3	Key note address by the Principal	9.42 - 9.55 AM	Dr. DSR Rajender Singh, Principal and Joint Director (FAC)
4	Introduction of Dr. A. Vijaya Bhasker Reddy	9:55 – 9:58 AM	Dr. P. Vijaya, Co-convenor Department of Botany
5	Biodiversity and Ecosystem Restoration	10:00 –11:00 AM	Dr. A. Vijaya Bhasker Reddy, Assistant Professor, Department of Botany Nizam College (A), Osmania University
6	Introduction of Dr. Nageswara Rao Amanchi	11.00 - 11.02 AM	Smt. P. Archana Mary, Co-convenor, Department of Microbiology
7	Ecosystem Restoration-Certain Key Approaches, Principles and Interventions	11:02 – 12:02 PM	Dr. Nageswara Rao Amanchi Assistant Professor, Department of Zoology, Nizam College (A), Osmania University
8	Introduction of Dr. Rama Chandra Prasad Pillutla	12.02 – 12.05 PM	Dr. K. Sarojini Chakravarthy, Organizing Secretary Department of Botany
9	Remote Sensing Approaches in Understanding Ecosystem Restoration	12.05 – 1.05 PM	Dr. Rama Chandra Prasad Pillutla Associate Professor Lab for Spatial Informatics, IIIT, Hyderabad
10	Introduction of Dr. N. Srinivasa Rao	1.05 – 1.07 PM	Smt. B. Sofia Rani, Head, Department of Botany
11	Ocean Environmental Challenges-Observing Through Remote Sensing	1.10 – 2.10 PM	Dr. N. Srinivasa Rao, Scientist, Indian National Centre for Ocean Information Services (INCOIS) Ministry of Earth Sciences, Government of India, Hyderabad
10	Vote of Thanks	2.15 PM	Smt. P. Archana Mary, Co-convenor, Department of Microbiology


Zoom Meeting
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Gopala Bhaskar...
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Suprabha
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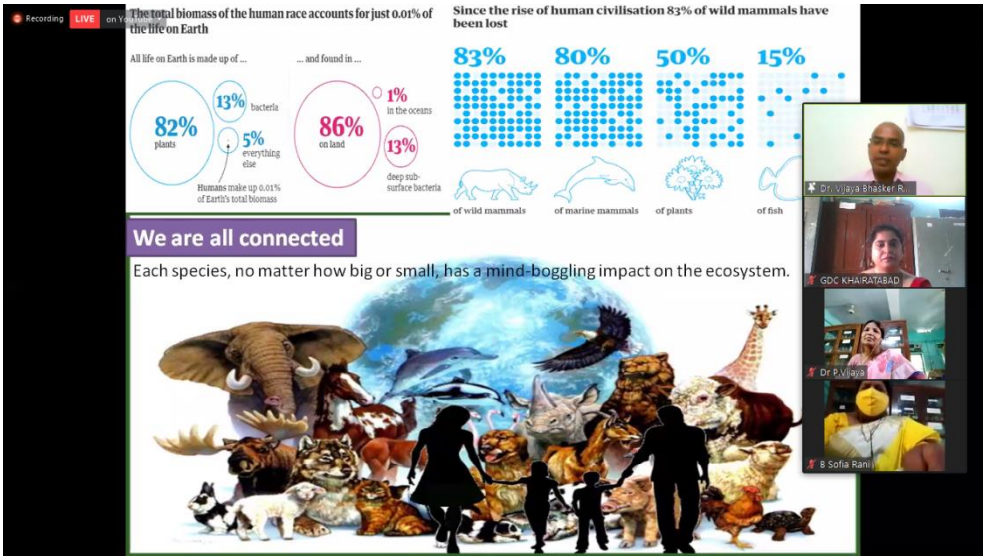
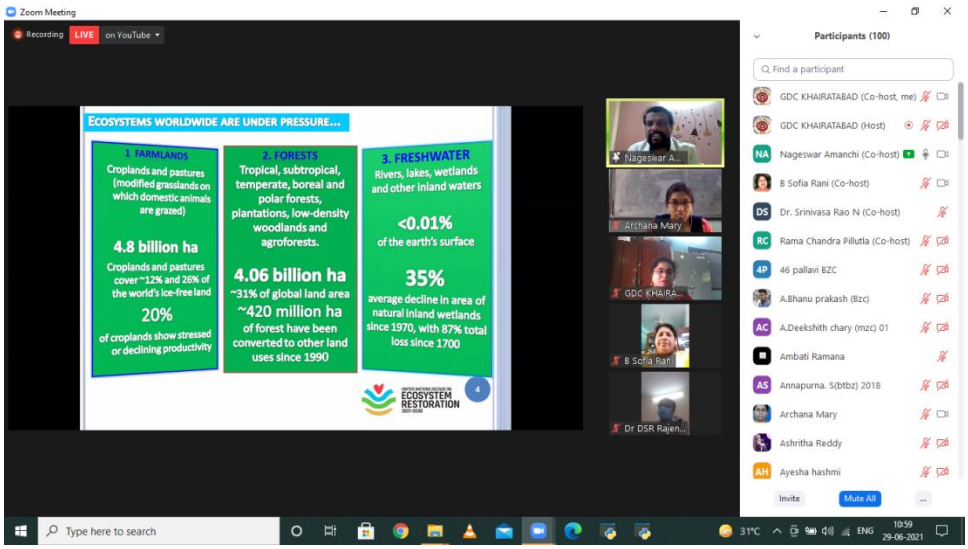

Recording LIVE
The total biomass of the human race accounts for just 0.01% of the life on Earth
All life on Earth is made up of ...
82% plants
13% bacteria
5% everything else
Humans make up 0.01% of Earth's total biomass
... and found in ...
86% on land
1% in the oceans
13% deep sub-surface bacteria
Since the rise of human civilisation 83% of wild mammals have been lost
83% of wild mammals
80% of marine mammals
50% of plants
15% of fish
We are all connected
Each species, no matter how big or small, has a mind-boggling impact on the ecosystem.
Dr. Vijaya Bhasker R...
GDC KHAIRATABAD
Dr P.Vijaya
B Sofia Rani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ECOSYSTEMS WORLDWIDE ARE UNDER PRESSURE...
1 FARMLANDS
Croplands and pastures (modified grasslands on which domestic animals are grazed)
4.8 billion ha
Croplands and pastures cover ~12% and 26% of the world's ice-free land
20%
of croplands show stressed or declining productivity
2. FORESTS
Tropical, subtropical, temperate, boreal and polar forests, plantations, low-density woodlands and agroforests.
4.06 billion ha
~31% of global land area
~420 million ha
of forest have been converted to other land uses since 1990
3. FRESHWATER
Rivers, lakes, wetlands and other inland waters
<0.01%
of the earth's surface
35%
average decline in area of natural inland wetlands since 1970, with 87% total loss since 1700
ECOSYSTEM RESTORATION
Nageswar A...
Archana Mary
GDC KHAIRA...
B Sofia Rani
Dr DSR Rajen...
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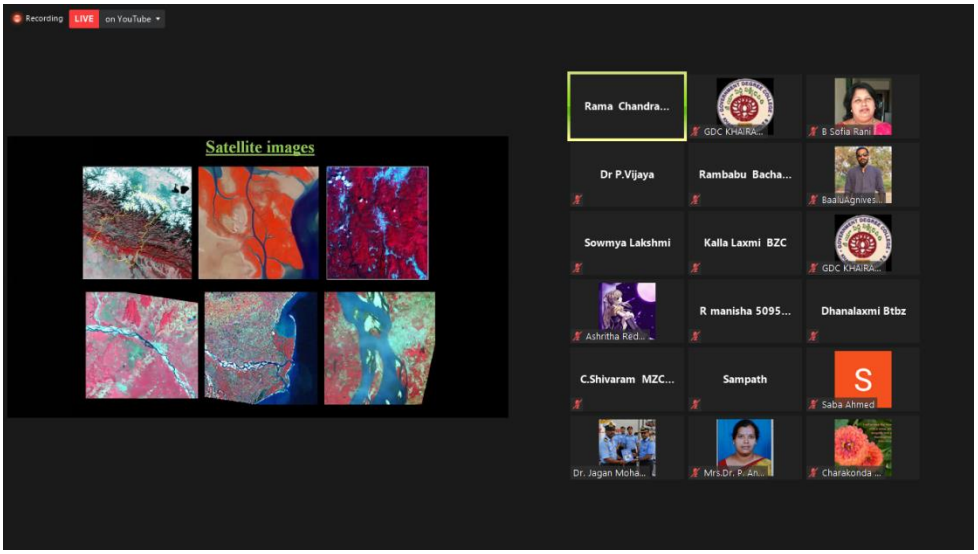

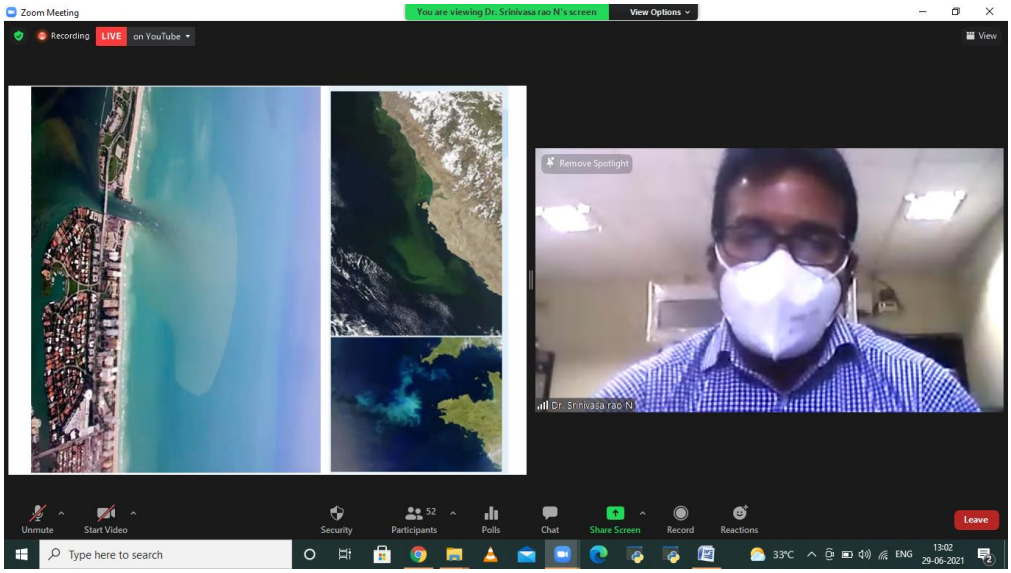

GOVERNMENT DEGREE COLLEGE
KHAIRATABAD

(Affiliated to Osmania University)
Re-Accredited by NAAC with 'B' Grade

DEPARTMENT OF BOTANY & MICROBIOLOGY

PARTICIPATION CERTIFICATE

This is to certify that Dr/Ms/Mr Farath Jahan from Girraj Govt College NZB has participated in NATIONAL WEBINAR on "ECOSYSTEM RESTORATION" organized by the Department of Botany & Microbiology on 29th June, 2021.

Dr. K. SAROJINI CHAKRAVARTHY	B. SOFIA RANI	Dr. DSR. RAJENDER SINGH
Organizing Secretary	Convenor	Principal & Joint Director (FAC)

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